

NY. P.S.C. Tariff No. 1 - Telephone
Crown Castle Fiber LLC
Effective Date: November 1, 2018

Leaf No. 1
Revision: 0
Superseding Revision:

Crown Castle Fiber LLC

Tariff Schedule Applicable to
Facilities-Based and Resold Intrastate Telecommunications within
the state of New York

This Tariff supersedes and replaces in its entirety any previous tariff filed by Crown Castle Fiber LLC (f/k/a Lighttower Fiber Networks II, LLC), including Sidera Networks, LLC's PSC No. 1, RCN New York Communications, LLC d/b/a Sidera Networks f/k/a RCN New York Communications, LLC d/b/a RCN Metro Optical Networks f/k/a RCN New York Communications, LLC f/k/a Con Edison Communications, LLC PSC No. 1 with the New York State Public Service Commission.

This tariff will be maintained and made available for inspection at the Company's business office located at 2000 Corporate Drive, Canonsburg, PA 15317.

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Tariff Format

- A. Leaf Numbering - Leaf numbers appear in the upper right corner of the leaf. Leafs are numbered sequentially. However, new leafs are occasionally added to the tariff. When a new leaf is added between leafs already in effect, a decimal is added. For example, a new leaf added between Leaf 14 and 15 would be 14.1.
- B. Leaf Revision Numbers - Revision numbers also appear in the upper right corner of each leaf. These numbers are used to determine the most current leaf version on file with the Commission. For example, the 4th Revised Leaf 14 cancels the 3rd Revised Leaf 14.
- C. Paragraph Numbering Sequence - There are various levels of paragraph coding. Each level of coding is subservient to its next higher level:

2
2.1
2.1.1
2.1.1.1
2.1.1.1.A
2.1.1.1.A.1

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Contacting the Public Service Commission

In the case of a dispute between the Customer and the Company which cannot be resolved with mutual satisfaction, the Customer may file a complaint by contacting the New York State Department of Public Service by phone, online or by mail.

1. By Phone:

Helpline (for complaints/inquiries):
1-800-342-3377 for Continental United States or,
1-800-662-1220 for Hearing/Speech Impaired: TDD or,
518-472-8502 for fax

2. Online:

<http://www.dps.ny.gov/complaints.html> or,

3. By Mail:

NYS Department of Public Service
Office of Consumer Services
3 Empire State Plaza
Albany, NY 12223-1350

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1 General

1.1 Explanation of Symbols

- (C) – To signify a changed regulation
- (D) – To signify a discontinued rate or regulation
- (I) – To signify an increase in a rate
- (M) – To signify text or rates relocated without change
- (N) – To signify a new rate or regulation or other text
- (R) – To signify a reduction in a rate
- (S) – To signify reissued regulations
- (T) – To signify a change in text but no change in rate
- (Z) – To signify a correction

1.2 Application of the Tariff

- 1.2.1 This tariff governs the Company's intrastate telecommunications facilities or Products that originate and terminate in the state of New York. Specific Products and rates are described elsewhere in this tariff.
- 1.2.2 The Company's Products are available to business customers and wholesale carriers.
- 1.2.3 The Company's Product territory is the state of New York.
- 1.2.4 The rates and regulations contained in this tariff apply only to the intrastate telecommunications facilities or Products furnished by the Company and do not apply, unless otherwise specified, to the lines, facilities, services, or products, provided by a local exchange carrier or other common carrier for use in accessing the Products of the Company. A communication is "intrastate" only if all points of origination and termination are located within the state of New York. This tariff does not cover any un-regulated product offered by the Company.

The rates, rules, terms and conditions contained herein are subject to change pursuant to the rules and regulations of the Commission.

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1.3 Definitions

- 1.3.1 "Acceptance Date" refers to the date of acceptance for each Product.
- 1.3.2 "Carrier," "Company" or "Utility" refers to Crown Castle Fiber LLC.
- 1.3.3 "Commission" means the New York State Public Service Commission.
- 1.3.4 "Circuit" means a communications path or paths between two or more points.
- 1.3.5 "Customer" means any person, firm, corporation, or governmental entity who has applied for and is granted use of Product or who is responsible for payment of Product, and for compliance with the Company's rules and regulations.
- 1.3.6 "Demarcation Point" means the network interface point where Company hands off the Product to Customer. The Demarcation Point delineates where responsibility for the parties' respective networks, equipment and/or maintenance obligations begin and end.
- 1.3.7 "F.C.C." means the Federal Communications Commission.
- 1.3.8 "Individual Case Basis ("ICB")" means an arrangement in which the regulation, rates and charges are developed based on the specific circumstances of the Customer.
- 1.3.9 "MRC" means monthly-recurring charge.
- 1.3.10 "Network" means the Company's facilities, equipment, and telecommunications used to deliver the Products provided under this tariff.
- 1.3.11 "NRC" means non-recurring charge.
- 1.3.12 "On-Net Product" means any Product that is provided between locations on the telecommunications network owned by Company.

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- 1.3.13 “Off-Net Product” means Product provided on a telecommunications network that is not part of the telecommunications network owned by Company, but used to provide Product to a Customer.
- 1.3.14 “Order Form” is a written request for Product executed by the Customer and the Company in the format required by the Company. The signing of an Order Form by the Customer and acceptance by the Company initiates the respective obligations of the parties as set forth therein and pursuant to this tariff.
- 1.3.15 “Product” or “Products” means telecommunications product or products provided or licensed by the Company under this tariff.
- 1.3.16 “Product Term” is the term for each Product which begins on the Acceptance Date of the Order Form applicable to such Product, or on such other date as may be stated in the Order Form, and remains in effect until the expiration of the initial term specified in the applicable Order Form, which may be automatically extended for consecutive one-year renewal terms, unless either Company or Customer notifies of intent not to renew at least ninety (90) days prior to the expiration of the then-current initial or renewal Product Term.
- 1.3.17 “VGE” means Voice Grade Equivalent. The VGE for various circuit types are as follows:

Type of Circuit	Bandwidth	Equivalent T1's	VGE
DS-3	45	28	672
OC3	155	84	2016
OC12	622	336	8064
OC-48	2488	1344	32256
OC-192	9953	5376	129024

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2 Rules and Regulations

2.1 Undertaking of the Company

The Company undertakes to furnish SONET, Ethernet, Wavelength and Video Transport services to business customers and wholesale carriers within the state of New York. Subject to the approval by the Commission if required, the Company may offer other telecommunications Products in the future. To the extent that it is required, such future offerings will be set forth in transmittals and revised tariff leafs detailing changes to this tariff or other tariffs the Company may have on file with the Commission.

If permitted by an applicable Order Form, Customers may connect Products and facilities provided by the Company under this tariff to obtain access to products offered by other providers. The Company is responsible under this tariff only for the Products provided hereunder, and it assumes no responsibility for any product provided by any other entity that purchases access to the Company's Network in order to originate or terminate its own products, or to communicate with its own customers.

The furnishing of Product under this tariff is subject to the availability on a continuing basis of all the necessary facilities and is limited to the capacity of the Company's facilities as well as facilities the Company may obtain from other carriers to furnish Product from time to time as required at the sole discretion of the Company and consistent with the authority granted by the Commission.

The Company reserves the right to limit or to allocate the use of existing facilities, or of additional facilities offered by the Company, when necessary because of lack of facilities, or due to other causes beyond the Company's control.

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2.2 Obligations of the Customer

2.2.1 The Customer shall be responsible for:

- 2.2.1.1 The payment of all applicable charges specified in Order Form(s) executed by the Customer and for charges due pursuant to this tariff, including, but not limited to, taxes and fees in Section 2.12.1.
- 2.2.1.2 Reimbursing the Company for damage to, or loss of, Company's facilities and equipment caused by the acts or omissions of the Customer or Customer's employees, contractors, agents, or end users; or the noncompliance by the Customer or Customer's employees, contractors, agents, or end users, with these regulations, or by fire or theft or other casualty on the Customer's premises to the extent caused by the negligence or willful misconduct of the employees or agents of the Company. Customer may not, and may not permit others to, alter, adjust, encumber, tamper, repair, rearrange, change, remove, relocate, or damage any Company's facilities and equipment or the Network without the prior written consent of Company. Customer may not cause any liens to be placed on any Company's facilities and equipment or the Network, and will cause any such liens to be removed within ten (10) days of Customer's knowledge thereof. Nothing herein shall prevent Company from using the Network and/or Company's facilities and equipment to provide products to other customers.
- 2.2.1.3 Providing at no charge, as specified from time to time by the Company, any needed space and power to operate Company's facilities and equipment installed on the Customer's premises.
- 2.2.1.4 Complying with all laws and regulations regarding the working conditions on the premises at which the Company's employees and agents shall be installing or maintaining the Company's facilities and equipment. The Customer may be required to install and maintain the Company's facilities and equipment within a hazardous area if, in the Company's opinion, injury or damage to the Company's employees or property might result from installation or maintenance by the Company. The Customer shall be responsible for identifying, monitoring, removing and disposing of any hazardous material prior to any construction or installation work.

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- 2.2.1.5 Complying with all laws and regulations applicable to, and obtaining all consents, approvals, licenses and permits as may be required with respect to, the location and operation of the Company's facilities and equipment in any Customer premises for the purpose of installing, inspecting, maintaining, operating, repairing, or, upon termination of Product as stated herein, removing the facilities or equipment of the Company and returning the same to the Company.
- 2.2.1.6 Making Company's facilities and equipment available periodically for maintenance purposes at times requested by the Company. No allowance for product interruptions will be made for the period during which product is interrupted for such purposes.
- 2.2.1.7 Procuring, at its expense, any equipment necessary to implement or receive each Product. Company will have no obligation to install, maintain, or repair such equipment.
- 2.2.1.8 Securing, at its own expense, throughout the Product Term any easements, leases, licenses or other agreements necessary to allow Company to use pathways into and in each building at which Company's or its end-user's premises is located, to the Demarcation Point. Company is responsible, at its sole cost and expense, for connecting to the Demarcation Point. Such access rights shall grant to Company the right to access such premises to the extent reasonably requested by Company to install, maintain, repair, replace and remove any and all equipment, cables or other devices Company deems necessary to provide the Product. Notwithstanding the foregoing, should Company incur any expenses which are deemed to be the Customer's responsibility, Company shall be entitled to seek reimbursement, provided said reimbursement is mutually agreed upon in advance.

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2.2.2 With respect to any Product, Network, equipment or facility provided by the Company, the Customer shall indemnify, defend and hold harmless the Company from all claims, actions, damages, liabilities, costs and expenses for:

2.2.2.1 Any loss, destruction or damage to property of the Company or any third party, or injury to persons, including, but not limited to, employees or invitees of either the Company or the Customer, to the extent caused by or resulting from the negligent or intentional act or omission of the Customer, its employees, agents, representatives or invitees; or

2.2.2.2 Any claim, loss, damage, expense or liability for infringement of any copyright, patent, trade secret, or any proprietary or intellectual property right of any third party, arising from any act or omission by the Customer.

2.2.3 The Customer is responsible for ensuring that Customer-provided equipment connected to Company-provided equipment and facilities is compatible with such Company's equipment and facilities. The connection, operation, testing, or maintenance of such equipment shall be such as not to cause damage to the Company-provided equipment and facilities or injury to the Company's employees or other persons. Any additional protective equipment required to prevent such damage or injury shall be provided by the Company at the Customer's expense.

2.2.4 The Company's Products (as detailed in this tariff) may be connected to the products or facilities of other communications carriers only when authorized by, and in accordance with, the terms and conditions of the tariff or agreements which are applicable to such connections. The Company-provided equipment and facilities shall remain the sole and exclusive property of Company notwithstanding that it may be or become attached or affixed to real property, and nothing contained in this tariff, individually negotiated agreement, or Order Form, grants or conveys to Customer any right, title or interest in any Company-provided equipment and facilities.

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2.2.5 Upon reasonable notification to the Customer, and at a reasonable time, the Company may make such tests and inspections as may be necessary to determine that the Customer is complying with the requirements set forth in this tariff for the installation, operation, and maintenance of Customer-provided facilities and equipment that is connected to Company-provided facilities and equipment.

2.3 Liability of the Company

2.3.1 Because certain errors incident to the Products and to the use of Company's equipment and facilities are unavoidable, products and facilities furnished by the Company are subject to the terms, conditions and limitations herein specified. Product Irregularities

2.3.1.1 The liability of the Company for damages arising out of mistakes, omissions, interruptions, delays, errors or defects in transmission, or failures or defects in facilities furnished by the Company, occurring in the course of furnishing Product or other facilities and not caused by the negligence of the Customer, shall in no event exceed an amount equivalent to the proportionate monthly recurring charge to the Customer for the Product or facilities affected during the period such mistake, omission, interruption, delay, error or defect in transmission, or failure or defect in facilities continues after notice and demand to Company.

2.3.1.2 The Company shall not be liable for any act or omission of any connecting carrier, underlying carrier or local exchange company except where the Company contracts with such other carrier, in which event the Company shall be liable only to the extent that the Company is able to recover from the other carrier. The Company shall not be liable for acts or omission of any other providers of connections, facilities, or Product; or for culpable conduct of the Customer or failure of equipment, facilities or connections provided by the Customer.

2.3.2 Claims of Misuse of Product

2.3.2.1 The Customer shall indemnify, defend and hold harmless the Company and its employees, agents and managers from and against the following: (i) claims for libel, slander, fraudulent or misleading advertisements or infringement of copyright arising

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directly or indirectly from material transmitted over its facilities or the use thereof; (ii) claims for infringement of patents arising from combining or using apparatus and systems of the Customer with facilities of the Company; and (iii) all other claims arising out of any act or omission of the Customer in connection with the Products and facilities provided by the Company.

2.3.3 Defacement of Premises

2.3.3.1 The Company is not liable for any defacement of, or damage to, the Customer's premises resulting from the furnishing of Product or the attachment of equipment and facilities furnished by the Company on such premises or by the installation or removal thereof, when such defacement or damage is not the result of negligence of the Company. For the purpose of this paragraph, no agents or employees of other participating carriers shall be deemed to be agents or employees of the Company except where contracted by the Company.

2.3.4 Facilities and Equipment in Hazardous or Environmentally Sensitive or Inaccessible Locations

2.3.4.1 The Company does not guarantee nor make any warranty with respect to installations provided by it for use in a hazardous or environmentally sensitive location or atmosphere. Customer shall indemnify, defend and hold harmless the Company and its employees, agents and managers from and against any and all claims, loss, demands, suits, or other action, or any liability whatsoever, whether suffered, made, instituted or asserted by the Customer or by any other party, for any personal injury to or death of any person or persons, and for any loss, damage or destruction of any property, including environmental contamination, whether owned by the Customer or by any other party, caused or claimed to have been caused directly or indirectly by the installation, operation, failure to operate, maintenance, presence, condition, location, use or removal of any equipment or facilities or the Product in a hazardous or environmentally sensitive area and not due to the gross negligence or willful misconduct of the Company.

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2.3.5 Product at Outdoor Locations

- 2.3.5.1 The Company reserves the right to refuse to provide, maintain or restore Product at outdoor locations unless the Customer agrees in writing to indemnify and save the Company harmless from and against any and all loss or damage that may result to equipment and facilities furnished by the Company at such locations. The Customer shall indemnify and save the Company, its employees, agents and managers harmless from and against injury to or death of any person or damage to tangible property which may result from the location and use of such equipment and facilities.

2.3.6 Warranties

OTHER THAN WARRANTIES EXPRESSLY SET FORTH IN THIS TARIFF, THE COMPANY MAKES NO WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED EITHER IN FACT OR BY OPERATION OF LAW, STATUTORY OR OTHERWISE, AND THE COMPANY DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE.

2.3.7 Limitation of Liability

- 2.3.7.1 The Company's liability for any failure or defect or interruption in Product is limited to credits against monthly recurring charges as specifically set forth in Order Forms or other agreements executed by Customer and the Company. In the absence of a different agreement executed in writing, such credits shall be equal to the proportionate amount of monthly recurring charges for the fraction of the month during which the applicable Product was unavailable and such unavailability was not due to Force Majeure as defined at paragraph 2.3.8.3 below, or to failure of Customer's equipment or failure of Customer to allow Company access to its Product locations, or act or omission of Customer.

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2.3.7.2 IN NO EVENT SHALL THE COMPANY BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, RELIANCE, CONSEQUENTIAL, EXEMPLARY OR PUNITIVE DAMAGES, LOSS OF REVENUES OR PROFIT, LOSS OF GOODWILL, LOSS OF USE OF ANY PROPERTY, COST OF SUBSTITUTE PERFORMANCE, EQUIPMENT OR PRODUCTS, DOWNTIME COSTS OR ANY CLAIM FOR DAMAGES, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

2.3.7.3 The Company shall not be liable to the Customer or any other person, firm or entity for any failure of performance hereunder, nor shall any credit or remedy be extended for any delay or failure to fulfill any obligation under this tariff, if such failure or delay is due to any cause or causes beyond the reasonable control of the Company. Such causes shall be events of Force Majeure and include, without limitation, acts of God, flood, extreme weather, fire, natural calamity, terrorism, any moratorium, law, order, regulation, action or inaction of any governmental entity or civil or military authority, power or utility failures, fiber or cable cuts caused by third parties, unavailability of rights-of-way, national emergencies, insurrections, riots, wars, strikes, lock-outs, work stoppages or other labor difficulties, pole hits, or material shortages.

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2.4 Customer Liability for Unauthorized Use of the Network

Unauthorized use of the Network occurs when a person or entity that does not have actual, apparent, or implied authority to use the Network, obtains the Company's Products provided under this tariff.

2.4.1 Customer Liability for Fraud and Unauthorized Use of the Network

- 2.4.1.1 Except as provided elsewhere in this tariff, the Customer is responsible for payment of all charges for Products provided under this tariff furnished to the Customer. This responsibility is not changed due to any use, misuse, or abuse of the Customer's Products or Customer-provided equipment by the Company, users, other third parties, the Customer's employees or the public.
- 2.4.1.2 The Customer is liable for all costs incurred as a result of unauthorized use of the Network, including Product charges and any direct, indirect, special, incidental, reliance, consequential, exemplary or punitive charges,
- 2.4.1.3 The Customer is responsible for payment of any charges related to the suspension and/or termination of Product, and any charges for reconnection of Product, incurred as a result of unauthorized use of the Network.
- 2.4.1.4 The following activities constitute fraudulent use:
 - 2.4.1.4.A Using or attempting to use the Network without payment or with the intent to avoid payment for the Product;
 - 2.4.1.4.B Using or attempting to use the Network in a manner to violate the law.

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2.5 Application for Product

2.5.1 Minimum Contract Period

2.5.1.1 Except as otherwise provided, the minimum contract period is one year for all Products furnished.

2.5.1.2 The Company may require a minimum contract period longer than one year in connection with special arrangements or construction necessary to meet Product demands.

2.5.2 Cancellation of Product

If Customer cancels an Order Form, Customer is responsible for payment of all non-recurring charges and monthly recurring charges that would be due during the term of the Order Form.

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2.6 Payment Terms

- 2.6.1 Product will be billed directly by the Company on a monthly basis and is due and payable upon receipt or as specified on the Customer's bill. The monthly-recurring charge associated with the Product shall begin to accrue on the Acceptance Date of such Product as stated in the applicable Order Form and will continue until the expiration of the Order Form. Product will continue to be provided until canceled by the Customer or discontinued by the Company as set forth in Section 2.15 of this tariff or individually negotiated agreement.
- 2.6.2 The Customer is responsible for payment of all charges for Product furnished to the Customer. The Company will invoice Customer for any NRC associated with the Product upon or after execution of the applicable Order Form. The MRC associated with the Product will be invoiced and shall be payable in advance, except Customer usage based charges (if any) associated with the Product which will be billed in arrears. A MRC charge for a partial month will be pro-rated. Customer shall be responsible for payment of the MRC for the entire Term specified in the applicable Order Form.
- 2.6.3 The Company reserves the right to require from an applicant for Product advance payments of recurring charges and non-recurring charge(s). The advance payment will not exceed an amount equal to the non-recurring charge(s) and three months' charges for the Product or facility. In addition, where special construction is involved, the advance payment may also include an amount equal to the estimated non-recurring charges for the special construction. The advance payment will be applied to any indebtedness for the Product and facilities for which the advance payment is made on the Customer's initial bills.

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2.7 Customer Deposits

The Company does not collect deposits from its Customers.

2.8 Late Payment Charges

2.8.1 The undisputed portions of the invoice must be paid by the payment due date to avoid assessment of a late payment charge on the undisputed amount as provided in this tariff. Customer may in good faith dispute charges set forth in an invoice, provided Customer notifies Company of such dispute in writing no later than sixty (60) days after the date of the invoice pursuant to paragraph 2.11.1 below.

2.8.2 If any billed amount is not paid when due (generally within 30 days after invoice date), Customer shall pay the past due amount (including any disputed amount denied by the Company pursuant to paragraph 2.11.2), in addition to a late payment charge on all past due amounts at the rate of one and one-half percent (1.5%) per month, compounded monthly (or, if lower, the maximum rate allowed by law). Late payment charges do not apply to government agencies of the State of New York.

2.8.3 Company shall be entitled to recover from Customer all collections costs, including attorney fees.

2.9 Back Billing

The Company shall be entitled to revise bills previously rendered to adjust for previously rendered unbilled Product, or adjust upward a bill previously rendered, for a period of two years after the Product was rendered.

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2.10 Overcharge/Undercharge

- 2.10.1 When a Customer has been overcharged, the amount shall be refunded or credited to the Customer. Overcharges not refunded within 30 days are subject to interest accrual.
- 2.10.2 When a Customer has been undercharged, the amount shall be billed to the Customer.

2.11 Customer Complaints and Billing Disputes

- 2.11.1 Customers must notify the Company of billing or other disputes in writing no later than sixty (60) days after the date of the invoice and shall submit a documented claim with detailed information in writing for the disputed amount and pay the undisputed amounts in accordance with paragraphs 2.8.1 and 2.8.2. Failure of Customer to so notify Company of any dispute shall constitute a waiver by Customer of any dispute. Any amounts disputed in good faith shall not be due and payable until such dispute is resolved as provided herein. All billed amounts not disputed in good faith and in writing or orally by Customer within such sixty (60) days may not be disputed by Customer. All undisputed amounts are due and payable by the due date. The Company's Customer care representatives may be contacted at:

2000 Corporate Drive
Canonsburg, PA 15317
Toll-free Telephone: (888) 583-4237
Attn: Accounts Receivable Department

- 2.11.2 The Company shall respond to billing disputes submitted to it pursuant to paragraph 2.11.1 within sixty (60) days after the Company's receipt of the same. If the Company denies the dispute then the Customer shall pay the disputed amount but may appeal the decision to the Commission.

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2.11.3 The Company provides the following toll free number, 1-888-583-4237, for customers to contact the Company.

2.12 Taxes and Fees

2.12.1 Taxes and fees shall be listed as required by law on the Customer's bill.

2.12.2 If a state or a municipality, other political subdivision, state government agency, local government agency, or the Commission, imposes and collects from the Company a gross receipts tax, occupation tax, license tax, permit fee, franchise fee, or regulatory fee, such taxes and fees shall, as allowed by law, be billed pro rata to the Customer receiving Product from the Company within the territorial limits of such municipality, other political subdivision or local agency of government.

2.12.3 Product shall not be subject to taxes for a given taxing jurisdiction if the Customer provides the Company with a valid and duly executed exemption certificate and any other information with respect to such exemption as Company may require, and such certificate is acceptable to the Company and to the relevant taxing jurisdiction which granted the Customer a tax exemption.

2.12.4 Company is directly or indirectly owned in whole or in part by an entity that qualifies or intends to qualify as a "real estate investment trust" or "REIT" under Sections 856 through 860 of the Internal Revenue Code of 1986, as amended, and Company and REIT Owner are therefore subject to operating and other restrictions under said Code. Products provided under this tariff or an individually negotiated agreement(s) shall constitute a lease of the Products for purposes of Section 856 of the Internal Revenue Code of 1986, as amended, and the license of Products and receipt of charges in exchange therefor shall be treated in a manner consistent with the terms of this tariff or an individually negotiated agreement(s) and no tax return shall be inconsistent therewith except as required by law.

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2.13 Dishonored Check Charge

A dishonored check charge applies when any negotiable instrument presented for payment for Product becomes dishonored and is returned to the Company from the bank.

The dishonored check charge is \$20 per instrument, per return. This charge is in addition to late payment charges pursuant to Section 2.8.

2.14 Special Customer Arrangements

In cases where a Customer requests special or unique arrangements which may include, but are not limited to, engineering, conditioning, installation, construction, facilities, assembly, purchase or lease of facilities and/or other special products not offered under this tariff, the Company may provide the requested products subject to the availability of such products and all the necessary facilities to furnish such products that the Company owns as well as facilities the Company may obtain from other carriers to furnish such products at the sole discretion of the Company and consistent with the authority granted by the Commission. Appropriate recurring charges and/or non-recurring charges and other terms and conditions will be developed for the Customer for the provisioning of such arrangements.

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2.15 Termination or Denial of Product:

2.15.1 The Company may decline to provide Product, or may terminate an existing Product, in the following cases, some without notice, or where notice is required:

- 2.15.1.1 Late Payment or Nonpayment. If Customer fails to pay any charge when due.
- 2.15.1.2 Hazardous Condition. For a condition on the Customer's premises determined by the Company to be hazardous.
- 2.15.1.3 Adverse Effect on Product. Customer's use of equipment in such a manner as to adversely affect the Company's equipment or the Company's Product to others.
- 2.15.1.4 Tampering With Company Property. Customer's tampering with equipment furnished and owned by the Company.
- 2.15.1.5 Unauthorized Use of Product. Customer's unauthorized use of Product by any method which causes hazardous signals over the Company's Network.
- 2.15.1.6 Illegal use of Product. Customer's use of Product or equipment in a manner that violates the law.
- 2.15.1.7 For Non-compliance with Regulations. For violation of or non-compliance with the Commission's rules or the Company's tariffs on file with the Commission.
- 2.15.1.8 Failure on Contractual Obligations. For failure of the Customer to fulfill its contractual obligations for Product or facilities subject to regulation by the Commission.
- 2.15.1.9 Refusal of Access. For failure of the Customer to permit the Company to have reasonable access to its equipment at a Customer location.
- 2.15.1.10 Failure to Comply with Product Conditions. For failure of the Customer to furnish the equipment, permits, certificates, or rights-of-way, specified by the Company as a condition to obtaining Product, or if the equipment or permissions are withdrawn or

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terminated.

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2.15.2 If Product is disconnected or suspended by the Company and later re- installed or restored, re-installation or restoration of Product will be subject to all applicable installation charges.

2.16 Unlawful Use of Product

Product shall not be used for any purpose in violation of law or for any use as to which the Customer has not obtained all required governmental approvals, authorizations, licenses, consents, and permits.

2.17 Interference with or Impairment of Product

Product shall not be used in any manner that interferes with other persons in the use of their Product, prevents other persons from using their Product, or otherwise impairs the quality of Product to other Customers. The Company may require a Customer to immediately shut down its transmission of signals if said transmission is causing interference to others or impairing the product of others.

2.18 Emergency/Crisis/Disaster Restoration and Provisions – Telecommunications Service Priority

2.18.1 General

2.18.1.1 The TSP has two components, restoration and provisioning.

2.18.1.2 A restoration priority is applied to new or existing telecommunications services to ensure restoration before any other services during a service outage. TSP restoration priorities must be requested and assigned before a service outage occurs.

2.18.1.3 A provisioning priority is obtained to facilitate priority installation of new telecommunications services during a service outage. Provisioning on a priority basis becomes necessary when an end-user has an urgent requirement for a new NS/EP service that must be installed immediately or by a specific due date that can be met only by a shorter than standard or expedited Company provisioning time frame. As a matter of general practice, existing TSP services will be restored before provisioning new TSP service.

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2.18.2 TSP Request Process – Restoration

2.18.2.1 To request a TSP restoration priority assignment, a prospective TSP user must:

2.18.2.1.1 Determine that the user's telecommunications service supports an SN/EP function under one of the following four TSP categories:

- A. National Security Leadership
- B. National Security Posture and U.S. Population Attack Warning
- C. Public Health, Safety and Maintenance of Law and Order
- D. Public Welfare and Maintenance of National Economic Posture

2.18.2.1.2 Identify the priority level to be requested for the telecommunications service. The priority level is determined by the end-user's TSP category and service profile. The service profile defines the user's level of support to the portion of the telecommunications service that the user owns and operates, such as customer premises equipment or wiring. The five levels of priority and seven element groups that define the service profile are contained in the Service User Manual.

2.18.2.1.3 Complete the TSP Request for Service Users form (SF 315) available on the National Communications System (NCS) website (<http://tsp.ncs.gov/>). For non-federal users, have their TSP requests approved by a federal agency sponsor. Non-federal users should contact the OPT, at the NCS website (<http://tsp.ncs.gov/>), for information on identifying a sponsor for TSP requests.

2.18.2.1.4 Submit the SF 315 to the OPT.

2.18.2.1.5 Upon receipt of the TSP Authorization Code from the OPT, notify the Company and include the TSP Authorization Code in any

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service order to the Company requesting restoration of NS/EP services.

2.18.2.2 To request a TSP provisioning priority assignment, a prospective TSP user must follow the same steps listed in 2.18.2.1. above for restoration priority assignment except for the following differences. The user should:

2.18.2.2.1 Certify that its telecommunications service is an Emergency service. Emergency services are those that support one of the NS/EP functions listed in 2.18.2.1.1. above and are so critical that they must be provisioned at the earliest possible time, without regard to cost to the user.

2.18.2.2.2 Verify that the Company cannot meet the service due date without a TSP assignment.

2.18.2.2.3 Obtain approval from the end-user's invocation official to request a provisioning priority. Invocation officials are designated individuals with the authority to request TSP provisioning for a telecommunications service, and include the head or director of a federal agency, commander of a unified/specified military command, chief of a military service, commander of a major military command, or state governor.

2.18.3 Responsibilities of the End User.

End users or entities acting on their behalf must perform the following:

- 2.18.3.1 Identify telecommunications services requiring priority
 - 2.18.3.2 Request, justify, and revalidate all priority level assignments. Revalidation must be completed every 2 years, and must be done before expiration of the end-user's TSP Authorization Code(s).
 - 2.18.3.3 Accept TSP services by the Service due dates.
 - 2.18.3.4 Have Customer Premises Equipment (CPE) and Customer Premises Wiring (CPW) available by the requested service due date and ensure (through contractual means or otherwise) priority treatment for CPE and CPW necessary for end-to-end service continuity.
 - 2.18.3.5 Pay the Company any authorized costs associated with priority services.
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2.18.3.6 Report to the Company any failed or unusable services with priority levels.

2.18.3.7 Designate a 24-hour point of contact for each TSP request and apprise the OPT.

2.18.3.8 Cooperate with the OPT during reconciliation (comparison of NS/EP service information and resolution of any identified discrepancies) and revalidation.

2.18.4 Responsibilities of the Company

The Company will perform the following:

2.18.4.1 Provide TSP service only after receipt of a TSP authorization code.

2.18.4.2 Revoke TSP services at the direction of the end-user or OPT.

2.18.4.3 Ensure that TSP Program priorities supersede any other telecommunications priority that may be provided (other than control services and order wires).

2.18.4.4 Designate a 24-hour point of contact to receive reports of TSP service outages from TSP service users.

2.18.4.5 Designate a 24-hour point of contact to coordinate TSP processes with the OPT.

2.18.4.6 Confirm completion of TSP service order activity to the OPT.

2.18.4.7 Participate in reconciliation of TSP information at the request of the OPT.

2.18.4.8 Ensure that all subcontractors complete reconciliation of TSP information with the service vendor.

2.18.4.9 Ensure that other carriers supplying underlying facilities are provided information necessary to implement priority treatment of facilities that support NS/EP services.

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- 2.18.4.10 Assist in ensuring that priority level assignments of NS/EP services are accurately identified "end-to-end" by providing to subcontractors and interconnecting carriers the restoration priority level assigned to a service.
- 2.18.4.11 Disclose content of the NS/EP TSP database only as may be required by law.
- 2.18.4.12 Comply with regulations and procedures supplemental to and consistent with guidelines issued by the OPT.

2.18.5 Preemption

When spare facilities are not available, it may be for the Company to preempt the facilities required to provision or restore a TSP service. When preemption is necessary, non-TSP services may be preempted based on the Company's best judgment. If no suitable spare or non-TSP services are available, the Company may preempt an existing TSP service to restore a TSP service with a higher restoration priority assignment. When preemption is necessary, prior consent of the service user whose service will be preempted is not required; however, the Company will make every reasonable effort to notify the preempted customer of the action to be taken.

2.18.2.1 Critical Facilities Administration

2.19.1 Program Overview

- 2.19.1.1 Facilities-based carriers are responsible to provide data on the physical path of qualified circuits to customers who request such information. Such carriers are required to maintain facilities associated with qualified circuits in such a manner as to ensure that notification of a change in the physical routing of a qualifying circuit is communicated quickly to the affected customer, and the physical path data promptly updated. Such carriers will maintain the data and establish appropriate methods of identification and authentication to secure the data and restrict access by each customer to information relative to that customer's qualifying circuits.

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2.19.1.2 Customers are required to demonstrate for each qualifying circuit that the circuit has been registered under the federal Telecommunications Service Priority program in order to participate.

2.19.2 Customer Obligations

Customers participating under the Critical Facilities Administration program will be required to:

2.19.2.1 Identify critical facilities by enrolling circuits in the federal Telecommunications Service Priority program, and demonstrating the sponsorship of a federal agency supporting the designation of those circuits as qualifying under the federal Telecommunications Service Priority program. Such circuits will be referred to as "qualifying circuits."

2.19.2.2 Subscribe to the Critical Facilities Administration service offered by their carrier, and identify which qualifying circuits it wishes to enroll in the service. Such circuits will be referred to as "subscribed circuits."

2.19.3 Carrier Obligations

Facilities-based carriers will be obligated to identify the physical path of each subscribed circuit as follows:

2.19.3.1 Physical path information will be provided by reference to the latitude and longitude coordinates of suitable points along the circuit's path (e.g., cable entrances to buildings, manholes, riser poles, crossboxes, carrier equipment cabinets, and other circuit access points in the outside plant of the carrier) so as to allow the customer to ascertain with a reasonable degree of accuracy the actual physical path of each subscribed circuit.

2.19.3.2 Physical path information for newly provisioned subscribed circuits is to be available to the customer within 5 business days after the circuit has been installed, and within 15 business days for existing, in-place subscribed circuits.

2.19.3.3 Any planned moves, changes, or rearrangements that affect the physical path of a subscribed circuit are to be communicated at least 24 hours in advance to the customer, and information related to a

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move, change, or rearrangement that was as a result of unplanned activity is to be provided within 24 hours of the change.

- 2.19.3.4 Updated information regarding the revised physical path of subscribed circuits would be available to the customer within 5 business days for planned actions, and within 15 business days for unplanned activities.
- 2.19.3.5 Provision of the service would be suspended altogether in the instance of a major telephone outage. Once restored to service, current physical path information for a subscribed circuit would be developed and made available to the customer within ninety days of the restoration of service.
- 2.19.3.6 The carrier must establish a secure database or other means that would allow the customer to obtain information of the physical path for only its subscribed circuits, subject to appropriate authentication and authorization. Where practicable, the information should be made available on a 24 hour by seven day basis.

2.19.4 Rates

Rates for CFA are based upon the time required to collect the circuit path data. The company will give the customer a good faith estimate of the time period needed to perform the requested service. The customer will be billed those charges, along with the tariff charges established by any connecting carrier for the service.

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2.20 Special Discount Program - Schools and Libraries Discount Program

2.20.1 General

2.20.1.1 The Schools and Libraries Discount Program permits eligible schools (public and private, grades Kindergarten through 12) and libraries to purchase the Company services offered in this tariff and the (additional company tariff references, if appropriate) at a discounted rate, in accordance with the Rules adopted by the Federal Communications Commission (FCC) in its Universal Service Order 97- 157, issued May 8, 1997 and the New York State Public Service Commission in its Opinion and Order 97-11 Adopting Discounts for Services for Schools and Libraries, issued June 25, 1997. The Rules are codified at 47 Code of Federal Regulation (C.F.R.) 54.500 et. seq.

2.20.1.2 As indicated in the Rules, the discounts will be between 20 and 90 percent of the pre-discount price, which is the price of services to schools and libraries prior to application of a discount. The level of discount will be based on an eligible school or library's level of economic disadvantage and by its location in either an urban or rural area. A schools level of economic disadvantage will be determined by the percentage of its students eligible for participation in the national school lunch program, and a library's level of economic disadvantage will be calculated on the basis of school lunch eligibility in the public school district in which the library is located. A non-public school may use either eligibility for the national school lunch program or other federally approved alternative measures to determine its level of economic disadvantage. to be eligible for the discount, schools and libraries will be required to comply with the terms and conditions set forth in the Rules.

2.20.1.3 Discounts are available only to the extent that they are funded by the federal universal service fund. Schools and libraries may aggregate demand with other eligible entities to create a consortium.

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2.20.2 Regulations

2.18.2.1.5 Obligations of Eligible Schools and Libraries – Request for Service

2.20.2.1.1 Schools and libraries and consortia shall participate in a competitive bidding process for all services eligible for discounts, in accordance with any state and local procurement rules.

2.20.2.1.2 Schools and libraries and consortia shall submit requests for services to the Schools and Libraries Corporation, as designated by the FCC and follow established procedures.

2.20.2.1.3 Services requested will be used for educational purposes.

2.20.2.1.4 Services will not be sold, resold or transferred in consideration for money or any other thing of value.

2.20.2.2 Obligations of the Company

2.20.2.2.1 The Company will offer discounts to eligible schools and libraries on commercially available telecommunications services contained in this tariff. Those services contained in this tariff which are excluded from the discount program, in accordance with the Rules, are included as an attachment to this tariff.

2.20.2.2.2 The Company will offer services to eligible schools, libraries and consortia at prices no higher than the lowest price it charges to similarly situated non- residential customers for similar services (lowest corresponding price).

2.20.2.2.3 In competitive bidding situations, the Company may offer flexible pricing or rates other than in this tariff, where specific flexible pricing arrangements are allowed, subject to New York State Public Service Commission approval.

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2.20.3 Discounted Rates for Schools and Libraries

- 2.20.3.1 Discounts for eligible schools and libraries and consortia shall be set as a percentage from the pre-discount price, which is the price of services to schools and libraries prior to application of a discount.
- 2.20.3.2 The discount rate will be applied to eligible intrastate services purchased by eligible schools, libraries or consortia.
- 2.20.3.3 The discount rate is based on each school or library's level of economic disadvantage as determined in accordance with the FCC Order or other federally approved alternative measures (as permitted by the Rules) and by its location in either an urban or rural area.

2.21 Special Discount Program - Health Care Providers Support Program

2.21.1 General

- 2.21.1.1 The purpose of the Health Care Providers Support Program is to enable public and non-profit rural health care providers to have access to telecommunications services necessary for the provision of health care services at rates comparable to those paid for similar services in urban areas. The Health Care Providers Support Program offers eligible public and non-profit health care providers located in rural areas reduced rates for Company intrastate services. Such services must be purchased in accordance with the Rules adopted by the Federal Communications Commission (FCC) in its Universal Service Order 97-157, issued May 8, 1997 and the New York State Public Service Commission in its Order in Cases 94-C-0095 and 28425, issued November 4, 1997. The FCC Rules are codified at 47 Code of Federal Regulation (C.F.R.) 54.601 et. seq., and any amendments made thereto.

2.21.2 Regulations

- 2.21.2.1 To be eligible for the reduced rates, rural health care providers are required to comply with the terms and conditions set forth

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in the FCC Rules.

2.21.2.2 Reduced rates are available only to the extent that they are funded by the federal universal service fund.

2.21.2.3 Eligible rural health care providers may aggregate demand with other entities to create a consortium. Universal service support shall apply only to the portion of eligible services used by an eligible health care provider.

2.21.2.4 Responsibility of Eligible Health Care Providers

2.21.2.4.1 Rural health care providers and consortia shall participate in a competitive bidding process for all services eligible for reduced rates in accordance with any state and local procurement rules.

2.21.2.4.2 Rural health care providers and consortia shall submit requests for services to the program Administrator, as designated by the FCC, and follow established procedures.

2.21.2.4.3 Services requested must be used for purposes related to the provision of health care services or instruction that the health care provider is legally authorized to provide under the law.

2.21.2.4.4 A health care provider that cannot obtain toll free access to an Internet Service Provider and who is eligible for support for limited toll-free access under the Rules must certify that it lacks toll-free Internet access and that it is an eligible health care provider.

2.21.2.4.5 Services cannot be sold, resold or transferred in consideration for money or any other thing of value.

2.21.2.5 Responsibilities of the Company

2.21.2.5.1 The Company shall offer the rates and charges as specified in Section 3, to eligible health care providers to the extent that facilities and services are available and offered in the tariffs specified in 1. preceding.

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2.21.2.5.2 The Company shall offer services to eligible rural health care providers and consortia at prices no higher than the highest urban rate as defined in the FCC Order and Rules.

2.21.2.5.3 In competitive bidding situations, where specific flexible pricing arrangements are allowed, the Company may offer flexible pricing (to determine the reduced rate) subject to New York State Public Service Commission approval.

2.21.3 Rates and Charges

The following price adjustments will be available to eligible rural health care providers, except subparagraph 2.21.3.3, which shall be available to all eligible health care providers, regardless of location;

2.21.3.1 A reduced rate for telecommunications services, using a bandwidth capacity of up to 1.544 Mbps, not to exceed the highest tariffed or publicly available rate charged to a commercial customer for a similar service provided over the same distance in the nearest city in New York State with a population of at least 50,000.

2.21.3.2 An exemption from some mileage charges for any telecommunications services, using a bandwidth capacity of up to 1.544 Mbps, that is necessary for the provision of health care services. The exempted mileage includes the distance between the rural health care provider and the most distant perimeter of the nearest city in New York State with a population of 50,000 or more, less the standard urban distance, which is the maximum average diameter of all cities with population of 50,000 or more in the state.

2.21.3.3 Each eligible health care provider that cannot obtain toll-free access to an Internet service provider is entitled to receive toll charge credits for toll charges imposed for connecting to an Internet service provider as per the FCC Rules. Such toll charge credits are available pursuant to applicable toll tariffs.

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3 Rates and Charges

3.1 Rates Generally: Individual Case Basis (ICB)

Rates and charges, including minimum usage, installation, special construction and recurring charges, for the Company's Products are established at negotiated rates on an individual case basis (ICB), which may vary depending upon certain factors, including without limitation, the nature of the facilities and Products, the costs of construction and operation, the volume of traffic, the length of Product commitment by the Customer, and location. The terms of such arrangements shall be set forth in individual customer contracts and Order Forms. Unless otherwise specified, the terms, conditions, obligations, and regulations set forth in this tariff shall be incorporated into and become a part of, said contract, and shall be binding on the Company and Customer. The Company may or may not have an equivalent Product in its tariff on file with the Commission and the quoted ICB rates may be different than the tariffed rates. Customers who are similarly situated may have non-discriminatory access to requesting the Company's Products under an ICB rate. In the event of a conflict between this tariff and a contract and/or Order Form executed by the Customer and the Company, the contract and Order Form shall govern.

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3.2 Calculation of Rates

- 3.2.1 To the extent that mileage is a rate element associated with a particular Product, the rates for the mileage element are based on airline mileage between rate centers of the calling and called stations. The location of rate centers is based on information provided by the incumbent local exchange carrier. Mileage is calculated using the Vertical and Horizontal (V&H) coordinate system from the National Exchange Carriers Association Tariff F.C.C. No. 4.
- 3.2.2 When Product does not begin on the first day of the month, or end on the last day of the month, the charge for the fraction of the month in which Product was furnished will be calculated on a pro rata basis.

3.3 Trial

The Company may offer new products, not otherwise tarified, from time to time on a trial basis subject to Commission approval where required. Such trials are limited to a predetermined period of time specified by the Company. At the Company's option, and if permitted by Commission rules, a letter outlining the trial product may be filed with the Commission in lieu of filing new or revised tariff leaves.

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4 Description of Products

4.1 SONET Product

4.1.1 Product Description

4.1.1.1 General

SONET ("Synchronous Optical Network") Product provides high speed, synchronous optical fiber- based, full duplex data transmission capabilities. The Product is provisioned over the Company's shared SONET Network and provides customers with SONET-based broadband access transport with the following capabilities:

DS1	Transmission operating at the terminating bit rate of 1.544 Mbps
DS3	Transmission operating at the terminating bit rate of 45 Mbps
OC3, OC3c or STM-1	Transmission operating at the terminating bit rate of 155.52 Mbps
OC12, OC12c or STM4	Transmission operating at the terminating bit rate of 622.08 Mbps
OC48, OC48c or STM16	Transmission operating at the terminating bit rate of 2,488 Mbps.
OC192, OC192c or STM64	Transmission operating at the terminating bit rate of up to 9,953 Mbps

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4.1.1.2 Terms and conditions

- 4.1.1.2.A SONET Product is available for a term period of 1, 2, 3, 4 or 5 years typically. In either case, the minimum period for SONET Product is one year.
- 4.1.1.2.B Pursuant to applicable individually negotiated agreement(s) between the Company and the Customer, at the expiration of the term plan, the Product may be converted to month-to-month billing and rated at the then prevailing rates for month-to-month Product. The Customer will also have the option of subscribing to any then effective term plan billing in lieu of Product being provided as month- to-month billing.
- 4.1.1.2.C The installation of SONET Product is based on a negotiated interval.
- 4.1.1.2.D The Customer is responsible for all internal wiring past the point of Company's Demarcation Point, and the installation operation and maintenance of any Customer-provided equipment, as specified on the applicable Order Form. The Customer is also responsible for providing the Company with space and power for the Company-provided equipment installed at the Customer's premises.
- 4.1.1.2.E Any additional charges levied to the Company for space and power which are required in order to place add/drop multiplexers on the Company's side of the network interface will be the responsibility of the Customer.
- 4.1.1.2.F The Customer is responsible to specify in its Order Form what Product configuration is to be contained in each Product connection.
- 4.1.1.2.G A change in location or change of the type of circuit will be treated as a discontinuance of the existing Product and an installation of a new Product. All associated non- recurring charges will apply for the new Product. A new minimum period will be established for the new Product. The Customer will also be responsible for all outstanding minimum Product

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period obligations associated with the disconnected Product.

4.1.1.3 Rates and Charges

4.1.1.3.1 Non-Recurring Charges ("NRC")

Protected Node Install	ICB
Unprotected Node Install	ICB
Protected Drop Circuit Install	ICB
Unprotected Drop Circuit Install	ICB
Protected Digital DS11install	ICB
Protected Digital DS3 Install	ICB
Unprotected Digital DS11install	ICB
Unprotected Digital DS31install	ICB

The Company may bill a non-recurring charge(s) required to install and/or provide certain Product(s) at a specific location(s) pursuant to individually negotiated agreement(s) and applicable Order Form(s) between the Company and the Customer.

The Company reserves the right to require additional non-recurring and/or monthly-recurring charges related to the architecture necessary for installation, provision, operation, and/or maintenance of On-Net Product(s) and/or Off-Net Product(s) which may vary depending upon the individual circumstance of the Customer and the specifics of the location, whether it is not yet served or underserved and requiring construction or it is already served and requiring additional construction, where the On-Net Product(s) and/or Off-Net Product(s) may be provided to the Customer.

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4.1.1.3.2 Monthly Recurring Charges ("MRC")

Protected OC3 Node	ICB
Protected OC12 Node	ICB
Protected OC48 Node	ICB
Protected OC192 Node	ICB
Unprotected OC3 Node	ICB
Unprotected OC12 Node	ICB
Unprotected OC48 Node	ICB
Unprotected OC192 Node	ICB
Protected Drop Circuit- DS3	ICB
Protected Drop Circuit- OC3/OC3c	ICB
Protected Drop Circuit- OC12/OC12c	ICB
Protected Drop Circuit- OC48/OC48c	ICB
Unprotected Drop Circuit- DS3	ICB
Unprotected Drop Circuit- OC3/OC3c	ICB
Unprotected Drop Circuit- OC12/OC12c	ICB
Unprotected Drop Circuit- OC48/OC48c	ICB
Protected Digital DS1	ICB
Protected Digital DS3	ICB
Unprotected Digital DS1	ICB
Unprotected Digital DS3	ICB

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Revision: 0
Superseding Revision:

The Company may provide different Bandwidths (Mbps) in accordance with Product availability at specific location(s). The Company and the Customer may negotiate Product Terms greater than 60 months at rates not specified in this table.

The Company reserves the right to require additional non-recurring and/or monthly-recurring charges related to the architecture necessary for installation, provision, operation, and/or maintenance of On-Net Product(s) and/or Off-Net Product(s) which may vary depending upon the individual circumstance of the Customer and the specifics of the location, whether it is not yet served or underserved and requiring construction or it is already served and requiring additional construction, where the On-Net Product(s) and/or Off-Net Product(s) may be provided to the Customer.

4.1.1.4 Additional Charges

Additional charges will apply to serve location(s) that include Off-Net Product, require construction or lack adequate capacity to fulfill the request. Those specific charges will be quoted on a Customer specific basis.

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Effective Date: November 1, 2018

Leaf No. 43
Revision: 0
Superseding Revision:

4.2 Ethernet Product

4.2.1 Product Description

4.2.1.1 General

“Ethernet Product” or “Product” means a method of communication between or among two or more locations using the Ethernet protocol defined by IEEE 802.3. Ethernet Product may be ordered and provisioned either as On-Net Product or Off-Net Product. Ethernet Product includes, without limitation, the following types of Products:

- (a) **E-Line**: a port-based product providing dedicated UNIs for point to point connections. E-Line supports a single EVC between two (2) UNIs. Bandwidth ranges typically between 3Mbps and 10GE
- (b) **Ethernet Virtual Private Line (“EVPL”)**: a VLAN based product providing multiplexed UNIs allowing multiple EVCs per UNI. Bandwidth ranges typically between 3Mbps and 10GE
- (c) **Ethernet LAN (“E-LAN”)**: a VLAN based meshed product providing many-to-many products with dedicated or product-multiplexed UNIs. E-LAN supports transparent LAN product and multipoint Layer 2 VPNs. Bandwidth ranges typically between 3Mbps and 10GE
- (d) **Metro-E Advanced Private Line (“MAPL”)**: a dedicated point-to-point Ethernet product provided within a metro area over dedicated fiber transport. Bandwidth ranges typically between 1GE and 10GE
- (e) **ENNI (External Network to Network Interface)**: an interconnection point between the Provider and Customer Ethernet networks as defined in MEF Specification 26. An ENNI is typically provisioned as a 1G or 10G Port.

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Effective Date: November 1, 2018

Leaf No. 44
Revision: 0
Superseding Revision:

4.2.1.1 Terms and Conditions

- 4.2.1.1.A Ethernet Product is available for a term period of 1, 2, 3, 4 or 5 years typically. In either case, the minimum period for Ethernet Product is one year.
- 4.2.1.1.B Pursuant to applicable individually negotiated agreement(s) between the Company and the Customer, at the expiration of the term plan, the Product may be converted to month-to-month billing and rated at the then prevailing rates for month-to-month Product. The Customer will also have the option of subscribing to any then effective term plan billing in lieu of Product being provided as month- to-month billing.
- 4.2.1.1.C The charges to reroute Product may be identical to a new installation.
- 4.2.1.1.D The network interface is the LAN interface on the Customer's equipment. The interface types are as follows:
- 10/100T
 - 1000T
 - 1000LX
 - 1000SX
 - 10 GigE
- 4.2.1.1.E The installation of Ethernet Product is based on a negotiated interval.

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Superseding Revision:

- 4.2.1.1.F The Customer is responsible for all internal wiring past the point of Company's Demarcation Point, associated equipment required in connecting the LAN to the Ethernet Optical Network equipment, and the installation operation and maintenance of any Customer-provided equipment, as specified on the applicable Order Form. The Customer is also responsible for providing the Company with space and power for the Company-provided network interface device installed at the Customer's premises.
- 4.2.1.1.G Any additional charges levied to the Company for space and power which are required in order to place equipment on the Company's side of the network interface will be the responsibility of the Customer.
- 4.2.1.1.H The Customer is responsible to specify in its Order Form what product configuration is to be contained in each product connection.
- 4.2.1.1.I A change in location or change of the type of circuit will be treated as a discontinuance of the existing Product and an installation of a new Product. All associated non-recurring charges will apply for the new Product. A new minimum period will be established for the new Product. The Customer will also be responsible for all outstanding minimum Product period obligations associated with the disconnected Product.

4.2.1.2 Rates and Charges

4.2.1.2.1 Non-Recurring Charges ("NRC")

Ethernet On-Net E-Line Install Per UNI	ICB
Ethernet On-Net EVPL Install Per EVC	ICB
Ethernet On-Net ELAN Install Per EVC	ICB
Ethernet On-Net MAPL Per Location	ICB
ENNI 1G Install	ICB
ENNI 10G Install	ICB
All Off-Net	ICB

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Leaf No. 46
Revision: 0
Superseding Revision:

The Company may bill a non-recurring charge(s) required to install and/or provide certain Product(s) at a specific location(s) pursuant to individually negotiated agreement(s) and applicable Order Form(s) between the Company and the Customer.

The Company reserves the right to require additional non-recurring and/or monthly-recurring charges related to the architecture necessary for installation, provision, operation, and/or maintenance of On-Net Product(s) and/or Off-Net Product(s) which may vary depending upon the individual circumstance of the Customer and the specifics of the location, whether it is not yet served or underserved and requiring construction or it is already served and requiring additional construction, where the On-Net Product(s) and/or Off-Net Product(s) may be provided to the Customer.

4.2.1.2.2 Monthly Recurring Charges ("MRC")

Product	Bandwidth (Mbps)	MRC Range (12-60 Month Term)
Ethernet On-Net E-Line Per UNI	3	ICB
Ethernet On-Net E-Line Per UNI	5	ICB
Ethernet On-Net E-Line Per UNI	10	ICB
Ethernet On-Net E-Line Per UNI	20	ICB
Ethernet On-Net E-Line Per UNI	25	ICB
Ethernet On-Net E-Line Per UNI	30	ICB
Ethernet On-Net E-Line Per UNI	40	ICB
Ethernet On-Net E-Line Per UNI	45	ICB
Ethernet On-Net E-Line Per UNI	50	ICB
Ethernet On-Net E-Line Per UNI	60	ICB
Ethernet On-Net E-Line Per UNI	70	ICB

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Crown Castle Fiber LLC
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Leaf No. 47
Revision: 0
Superseding Revision:

Product	Bandwidth (Mbps)	MRC Range (12-60 Month Term)
Ethernet On-Net E-Line Per UNI	80	ICB
Ethernet On-Net E-Line Per UNI	90	ICB
Ethernet On-Net E-Line Per UNI	100	ICB
Ethernet On-Net E-Line Per UNI	150	ICB
Ethernet On-Net E-Line Per UNI	200	ICB
Ethernet On-Net E-Line Per UNI	300	ICB
Ethernet On-Net E-Line Per UNI	400	ICB
Ethernet On-Net E-Line Per UNI	500	ICB
Ethernet On-Net E-Line Per UNI	600	ICB
Ethernet On-Net E-Line Per UNI	700	ICB
Ethernet On-Net E-Line Per UNI	800	ICB
Ethernet On-Net E-Line Per UNI	900	ICB
Ethernet On-Net E-Line Per UNI	1000	ICB
Ethernet On-Net E-Line Per UNI	>1001	ICB
Ethernet On-Net EVPL Per EVC	3	ICB
Ethernet On-Net EVPL Per EVC	5	ICB
Ethernet On-Net EVPL Per EVC	10	ICB

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NY. P.S.C. Tariff No. 1 - Telephone
Crown Castle Fiber LLC
Effective Date: November 1, 2018

Leaf No. 48
Revision: 0
Superseding Revision:

Product	Bandwidth (Mbps)	MRC Range (12-60 Month Term)
Ethernet On-Net EVPL Per EVC	20	ICB
Ethernet On-Net EVPL Per EVC	25	ICB
Ethernet On-Net EVPL Per EVC	30	ICB
Ethernet On-Net EVPL Per EVC	40	ICB
Ethernet On-Net EVPL Per EVC	45	ICB
Ethernet On-Net EVPL Per EVC	50	ICB
Ethernet On-Net EVPL Per EVC	60	ICB
Ethernet On-Net EVPL Per EVC	70	ICB
Ethernet On-Net EVPL Per EVC	80	ICB
Ethernet On-Net EVPL Per EVC	90	ICB
Ethernet On-Net EVPL Per EVC	100	ICB
Ethernet On-Net EVPL Per EVC	150	ICB
Ethernet On-Net EVPL Per EVC	200	ICB
Ethernet On-Net EVPL Per EVC	300	ICB
Ethernet On-Net EVPL Per EVC	400	ICB
Ethernet On-Net EVPL Per EVC	500	ICB
Ethernet On-Net EVPL Per EVC	600	ICB

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Leaf No. 49
Revision: 0
Superseding Revision:

Product	Bandwidth (Mbps)	MRC Range (12-60 Month Term)
Ethernet On-Net EVPL Per EVC	700	ICB
Ethernet On-Net EVPL Per EVC	800	ICB
Ethernet On-Net EVPL Per EVC	900	ICB
Ethernet On-Net EVPL Per EVC	1000	ICB
Ethernet On-Net EVPL Per EVC	>1001	ICB
Ethernet On-Net ELAN Per EVC	3	ICB
Ethernet On-Net ELAN Per EVC	5	ICB
Ethernet On-Net ELAN Per EVC	10	ICB
Ethernet On-Net ELAN Per EVC	20	ICB
Ethernet On-Net ELAN Per EVC	25	ICB
Ethernet On-Net ELAN EVC	30	ICB
Ethernet On-Net ELAN Per EVC	40	ICB
Ethernet On-Net ELAN Per EVC	45	ICB
Ethernet On-Net ELAN Per EVC	50	ICB
Ethernet On-Net ELAN Per EVC	60	ICB
Ethernet On-Net ELAN Per EVC	70	ICB
Ethernet On-Net ELAN Per EVC	80	ICB

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NY. P.S.C. Tariff No. 1 - Telephone
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Effective Date: November 1, 2018

Leaf No. 50
Revision: 0
Superseding Revision:

Product	Bandwidth (Mbps)	MRC Range (12-60 Month Term)
Ethernet On-Net ELAN Per EVC	90	ICB
Ethernet On-Net ELAN Per EVC	100	ICB
Ethernet On-Net ELAN Per EVC	150	ICB
Ethernet On-Net ELAN Per EVC	200	ICB
Ethernet On-Net ELAN Per EVC	300	ICB
Ethernet On-Net ELAN Per EVC	400	ICB
Ethernet On-Net ELAN Per EVC	500	ICB
Ethernet On-Net ELAN Per EVC	600	ICB
Ethernet On-Net ELAN Per EVC	700	ICB
Ethernet On-Net ELAN Per EVC	800	ICB
Ethernet On-Net ELAN Per EVC	900	ICB
Ethernet On-Net ELAN Per EVC	1000	ICB
Ethernet On-Net ELAN Per EVC	>1001	ICB
Ethernet On-Net MAPL Per Location	<1000	ICB
Ethernet On-Net MAPL Per Location	1000	ICB
Ethernet On-Net MAPL Per Location	2000	ICB
Ethernet On-Net MAPL Per Location	3000	ICB

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Leaf No. 51
Revision: 0
Superseding Revision:

Product	Bandwidth (Mbps)	MRC Range (12-60 Month Term)
Ethernet On-Net MAPL Per Location	4000	ICB
Ethernet On-Net MAPL Per Location	5000	ICB
Ethernet On-Net MAPL Per Location	6000	ICB
Ethernet On-Net MAPL Per Location	7000	ICB
Ethernet On-Net MAPL Per Location	8000	ICB
Ethernet On-Net MAPL Per Location	9000	ICB
Ethernet On-Net MAPL Per Location	10000	ICB
ENNI Per Port	1000	ICB
ENNI Per Port	10000	ICB
ENNI Per Port	<1000 or >10000	ICB

The Company may provide different Bandwidths (Mbps) in accordance with Product availability at specific location(s). The Company and the Customer may negotiate Product Terms greater than 60 months at rates not specified in this table.

The Company reserves the right to require additional non-recurring and/or monthly-recurring charges related to the architecture necessary for installation, provision, operation, and/or maintenance of On-Net Product(s) and/or Off-Net Product(s) which may vary depending upon the individual circumstance of the Customer and the specifics of the location, whether it is not yet served or underserved and requiring construction or it is already served and requiring additional construction, where the On-Net Product(s) and/or Off-Net Product(s) may be provided to the Customer.

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Effective Date: November 1, 2018

Leaf No. 52
Revision: 0
Superseding Revision:

4.2.1.3 Additional Charges

Additional charges will apply to serve location(s) that include Off-Net Product, require construction or lack adequate capacity to fulfill the request. Those specific charges will be quoted on a Customer specific basis.

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Leaf No. 53
Revision: 0
Superseding Revision:

4.3 Wavelength Product

4.3.1 Product Description

4.3.1.1 General

“Wavelength Product” or “Product” means a telecommunications circuit enabled by wavelength division multiplexing (WDM) equipment. Wavelength Product may be ordered and provisioned either as On-Net Product or Off-Net Product. Wavelength Product includes, without limitation, the following types of Products:

- (a) ***Point to Point; Data Center to Data Center Connectivity-Inter Market; and Data Center to Data Center Connectivity-Intra Market:*** Dedicated circuit between two (2) locations over a shared optical fiber infrastructure. Can be configured using a variety of protocols (e.g. Ethernet, SONET, Fiber Channel, Encryption), in bandwidths ranging from 1Gbps to 100Gbps; or
- (b) ***Managed Private Optical Network (“MPON”):*** Dedicated circuit(s) between two (2) or more locations over dedicated optical fiber infrastructure and dedicated provider equipment at each location. Can be configured using a variety of protocols (e.g. Ethernet, SONET, Fiber Channel, Encryption), in bandwidths ranging from 1Gbps to 100Gbps

The Specifications applicable to Wavelength Products are as follows:

- a. ITU-T G.709, Interfaces for the Optical Transport Network (OTN)
- b. ITU-T G.693, Optical interfaces for intra-office systems
- c. ITU-T G.959.1, Optical transport network physical layer interfaces
- d. IEEE 802.3

4.3.1.2 Terms and Conditions

- 4.3.1.2.A Wavelength Product is available for a term period of 1, 2, 3, 4 or 5 years typically. The minimum period for Wavelength Product is one year.

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Leaf No. 54
Revision: 0
Superseding Revision:

- 4.3.1.2.B Pursuant to applicable individually negotiated agreement(s) between the Company and the Customer, at the expiration of the term plan, the Product may be converted to month-to-month billing and rated at the then prevailing rates for month-to-month Product. The Customer will also have the option of subscribing to any then effective term plan billing in lieu of Product being provided as month-to-month billing.
- 4.3.1.2.C The installation of Wavelength Product is based on a negotiated interval.
- 4.3.1.2.D The Customer is responsible for all internal wiring past the point of Company's Demarcation Point, and the installation operation and maintenance of any Customer-provided equipment, as specified on the applicable Order Form. The Customer is also responsible for providing the Company with space and power for the Company-provided equipment installed at the Customer's premises.
- 4.3.1.2.E Any additional charges levied to the Company for space and power which are required in order to place equipment on the Company's side of the network interface will be the responsibility of the Customer.
- 4.3.1.2.F The Customer is responsible to specify in its Order Form what product configuration is to be contained in each product connection.

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Leaf No. 55
Revision: 0
Superseding Revision:

4.3.1.2.G A change in location or capacity will be treated as a discontinuance of the existing Product and an installation of a new Product. All associated non-recurring charges will apply for the new Product. A new minimum period will be established for the new Product. The Customer will also be responsible for all outstanding minimum Product period obligations associated with the disconnected Product.

4.3.1.3 Rates and Charges

4.3.1.3.1 Non-Recurring Charges ("NRC")

Per Node Point to Point Per On-Net Install	ICB
MPON Per On-Net Install	ICB
Data Center to Data Center Connectivity-Inter Market Per On-Net Install	ICB
Data Center to Data Center Connectivity-Intra Market Per On-Net Install	ICB
All Off-Net	ICB

The Company may bill a non-recurring charge(s) required to install and/or provide certain Product(s) at a specific location(s) pursuant to individually negotiated agreement(s) and applicable Order Form(s) between the Company and the Customer.

The Company reserves the right to require additional non-recurring and/or monthly-recurring charges related to the architecture necessary for installation, provision, operation, and/or maintenance of On-Net Product(s) and/or Off-Net Product(s) which may vary depending upon the individual circumstance of the Customer and the specifics of the location, whether it is not yet served or underserved and requiring construction or it is already served and requiring additional construction, where the On-Net Product(s) and/or Off-Net Product(s) may be provided to the Customer.

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Effective Date: November 1, 2018

Leaf No. 56
Revision: 0
Superseding Revision:

4.3.1.3.2 Monthly Recurring Charges ("MRC")

Product	Bandwidth/ Protocol	MRC Range (12-60 Month Term)
Point to Point Per On-Net Location	1Gbps	ICB
Point to Point Per On-Net Location	10Gbps	ICB
Point to Point Per On-Net Location	OC-192	ICB
Point to Point Per On-Net Location	OC-192c	ICB
Point to Point Per On-Net Location	Other	ICB
MPON Per On-Net	ALL	ICB
Data Center to Data Center Connectivity-Inter Market Per On- Net Location (Route Dependent)	1Gbps, 1Gbps-FC, 2Gbps-FC	ICB
Data Center to Data Center Connectivity-Inter Market Per On- Net Location(Route Dependent)	10Gbps, 8Gbps-FC, 10Gbps-FC, OC-192, OC-192c	ICB
Data Center to Data Center Connectivity-Inter Market Per On- Net Location (Route Dependent)	Other	ICB
Data Center to Data Center Connectivity-Intra Market Per On- Net Location	1Gbps, 1Gbps-FC, 2Gbps-FC	ICB
Data Center to Data Center Connectivity-Intra Market Per On- Net Location	10Gbps, 8Gbps-FC, 10Gbps-FC, OC-192 OC-192c	ICB
Data Center to Data Center	Other	ICB

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Leaf No. 57
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Superseding Revision:

Connectivity-Intra Market Per On-Net Location		
MPON Per On-Net Location	ALL	ICB
MPON Per Off-Net Location	ALL	ICB

The Company may provide different Bandwidths (Mbps) in accordance with Product availability at specific location(s). The Company and the Customer may negotiate Product Terms greater than 60 months at rates not specified in this table.

The Company reserves the right to require additional non-recurring and/or monthly-recurring charges related to the architecture necessary for installation, provision, operation, and/or maintenance of On-Net Product(s) and/or Off-Net Product(s) which may vary depending upon the individual circumstance of the Customer and the specifics of the location, whether it is not yet served or underserved and requiring construction or it is already served and requiring additional construction, where the On-Net Product(s) and/or Off-Net Product(s) may be provided to the Customer.

4.3.1.4 Additional Charges

Additional charges will apply to serve locations that include Off-Net, require construction or lack adequate capacity to fulfill the request. Those specific charges will be quoted on a Customer specific basis.

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Crown Castle Fiber LLC
Effective Date: November 1, 2018

Leaf No. 58
Revision: 0
Superseding Revision:

4.4 Video Transport Product

4.4.1 Product Description

4.3.1.1 General

“Video Transport Product” or “Product” means a telecommunications circuit enabled by video transport encode / decode media equipment. Video Product may be ordered and provisioned either as On-Net Product or Off-Net Product. Video Transport Product includes, without limitation, the following types of Products:

Interface	Bandwidth	Standard
SD-SDI	270Mbps	SMPTE 259M-C
HD-SDI	1.485Gbps	SMPTE 292M
3G-SDI	2.970Gbps	SMPTE 424M
ASI	Up to 270Mbps	DVB-ASI
JPEG 2000	150 & 250 Mbps	ISO/IEC 15444

- “SMPTE” – Society of Motion Picture and Television Engineers
- “ASI” – Asynchronous Serial Interface
- “SD-SDI” – Standard Definition Serial digital interface
- “HD-SDI” – High Definition Serial digital interface
- “3G-SDI” – Formerly known as dual-link HD-SDI, supports 3Gbps transfer

4.3.1.2 Terms and Conditions

4.3.1.2.A Video Transport Product is available for a term period of 1, 2, 3, 4 or 5 years typically. The minimum period for Video Transport Product is one year.

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Crown Castle Fiber LLC
Effective Date: November 1, 2018

Leaf No. 59
Revision: 0
Superseding Revision:

- 4.3.1.2.B Pursuant to applicable individually negotiated agreement(s) between the Company and the Customer, at the expiration of the term plan, the Product may be converted to month-to-month billing and rated at the then prevailing rates for month-to-month Product. The Customer will also have the option of subscribing to any then effective term plan billing in lieu of Product being provided as month- to-month billing.
- 4.3.1.2.C The installation of Video Transport Product is based on a negotiated interval.
- 4.3.1.2.D The Customer is responsible for all internal wiring past the point of Company's Demarcation Point, and the installation operation and maintenance of any Customer-provided equipment, as specified on the applicable Order Form. The Customer is also responsible for providing the Company with space and power for the Company-provided equipment installed at the Customer's premises.
- 4.3.1.2.E Any additional charges levied to the Company for space and power which are required in order to place equipment on the Company's side of the network interface will be the responsibility of the Customer.
- 4.3.1.2.F The Customer is responsible to specify in its Order Form what product configuration is to be contained in each product connection.

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Crown Castle Fiber LLC
Effective Date: November 1, 2018

Leaf No. 60
Revision: 0
Superseding Revision:

4.3.1.2.G A change in location or capacity will be treated as a discontinuance of the existing Product and an installation of a new Product. All associated non-recurring charges will apply for the new Product. A new minimum period will be established for the new Product. The Customer will also be responsible for all outstanding minimum Product period obligations associated with the disconnected Product.

4.3.1.3 Rates and Charges

4.3.1.3.1 Non-Recurring Charges ("NRC")

Video Transport – Per ASI (270 Mbps) On-Net Install	ICB
Video Transport – Per SD-SDI (270 Mbps) On-Net Install	ICB
Video Transport – Per HD-SDI (1.485 Gbps) On-Net Install	ICB
Video Transport – Per 3G-SDI (2.97 Gbps) On-Net Install	ICB
Video Transport – Per JPEG2000 On-Net Install	ICB
All Off-Net	ICB

The Company may bill a non-recurring charge(s) required to install and/or provide certain Product(s) at a specific location(s) pursuant to individually negotiated agreement(s) and applicable Order Form(s) between the Company and the Customer.

The Company reserves the right to require additional non-recurring and/or monthly-recurring charges related to the architecture necessary for installation, provision, operation, and/or maintenance of On-Net Product(s) and/or Off-Net Product(s) which may vary depending upon the individual circumstance of the Customer and the specifics of the location, whether it is not yet served or underserved and requiring construction or it is already served and requiring additional construction, where the On-Net Product(s) and/or Off-Net Product(s) may be provided to the Customer.

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Effective Date: November 1, 2018

Leaf No. 61
Revision: 0
Superseding Revision:

4.3.1.3.2 Monthly Recurring Charges ("MRC")

Product	Bandwidth/ Protocol	MRC Range (12-60 Month Term)
Video Transport – Per On-Net Location	ASI (270 Mbps)	ICB
Video Transport – Per On-Net Location	SD-SDI (270 Mbps)	ICB
Video Transport – Per On-Net Location	HD-SDI (1.485 Gbps)	ICB
Video Transport – Per On-Net Location	3G-SDI (2.97 Gbps)	ICB
Video Transport – Per On-Net Location	JPEG2000 (150Mbps & 250 Mbps), Other	ICB
Video Transport – Per Off-Net Location	ALL	ICB

The Company may provide different Bandwidths (Mbps) in accordance with Product availability at specific location(s). The Company and the Customer may negotiate Product Terms greater than 60 months at rates not specified in this table.

The Company reserves the right to require additional non-recurring and/or monthly-recurring charges related to the architecture necessary for installation, provision, operation, and/or maintenance of On-Net Product(s) and/or Off-Net Product(s) which may vary depending upon the individual circumstance of the Customer and the specifics of the location, whether it is not yet served or underserved and requiring construction or it is already served and requiring additional construction, where the On-Net Product(s) and/or Off-Net Product(s) may be provided to the Customer.

4.3.1.4 Additional Charges

Additional charges will apply to serve locations that include Off- Net, require construction or lack adequate capacity to fulfill the request. Those specific charges will be quoted on a Customer specific basis.